

THE UNIVERSITY OF CHICAGO

Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly Arg
100 105 110

ggg gct gct cct ccc cgt ggt aga gcc ggt tat tca cag aga gga ggc 384
Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly Gly
115 120 125

cct gga tca gca aga ggc gtt cgc ggt gcg aga gga ggt gcc caa caa 432
Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln Gln
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caa aga ggc cgc ggg gga aaa ggg gtc gag gcc ggt cct gac ctg tta 480
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Gln

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<213> Mus musculus

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35 40 45

Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr Glu
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Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly Gly
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Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala Arg
85 90 95

Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly Arg
100 105 110

Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly Gly
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Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln Gln
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Gln Arg Gly Arg Gly Gly Lys Gly Val Glu Ala Gly Pro Asp Leu Leu
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 Met Ala Thr Glu His Val Asn
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 Gly Asn Gly Thr Glu Glu Pro Met Asp Thr Thr Ser Ala Val Ile His
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 tca gaa aat ttt cag aca ttg ctt gat gct ggt tta cca cag aaa gtt 270
 Ser Glu Asn Phe Gln Thr Leu Leu Asp Ala Gly Leu Pro Gln Lys Val
 25 30 35
 gct gaa aaa cta gat gaa att tac gtt gca ggg cta gtt gca cat agt 318
 Ala Glu Lys Leu Asp Glu Ile Tyr Val Ala Gly Leu Val Ala His Ser
 40 45 50 55
 gat tta gat gaa aga gct atc gaa gct tta aaa gag ttc aat gaa gac 366
 Asp Leu Asp Glu Arg Ala Ile Glu Ala Leu Lys Glu Phe Asn Glu Asp
 60 65 70
 ggc gca ttg gca gtg ctt caa cag ttt aaa gac agt gat ctc tct cat 414
 Gly Ala Leu Ala Val Leu Gln Gln Phe Lys Asp Ser Asp Leu Ser His
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 gtt cag aac aaa agt gcc ttt tta tgt gga gtc atg aag act tac agg 462
 Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr Arg
 90 95 100
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 Gln Arg Glu Lys Gln Gly Thr Lys Val Ala Asp Ser Ser Lys Gly Pro

115

gat gag gca aag att aag gca ctt ttg gaa aga aca ggc tac aca ctt 558
Asp Glu Ala Lys Ile Lys Ala Leu Leu Glu Arg Thr Gly Tyr Thr Leu
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gat gtg act aca ggt cag agg aag tat gga gga cca cct cca gat tcc 606
Asp Val Thr Thr Gly Gln Arg Lys Tyr Gly Gly Pro Pro Pro Asp Ser
140 145 150

ggt tat tca ggt cag cag cct tct gtt ggc act gag ata ttt gtg ggg 654
Val Tyr Ser Gly Gln Gln Pro Ser Val Gly Thr Glu Ile Phe Val Gly
155 160 165

aag atc ccc aga gat ctg ttt gag gat gag ctt gtt cca tta ttt gag 702
Lys Ile Pro Arg Asp Leu Phe Glu Asp Glu Leu Val Pro Leu Phe Glu
170 175 180

aaa gct gga cct ata tgg gat ctt cgt tta atg atg gat ccg ctc act 750
Lys Ala Gly Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu Thr
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Gly Leu Asn Arg Gly Tyr Ala Phe Val Thr Phe Cys Thr Lys Glu Ala
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gca caa gag gct gtt aaa ctg tat aat aat cat gaa att cgt tcc ggg 846
Ala Gln Glu Ala Val Lys Leu Tyr Asn Asn His Glu Ile Arg Ser Gly
220 225 230

aag cac att ggt gtc tgc atc tca gtt gcc aac aat agg ctt ttt gtg 894
Lys His Ile Gly Val Cys Ile Ser Val Ala Asn Asn Arg Leu Phe Val
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ggc tgc att cct aag agt aaa acc aag gag cag att ctt gag gaa ttt 942
Gly Ser Ile Pro Lys Ser Lys Thr Lys Glu Gln Ile Leu Glu Glu Phe
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agc aaa gtg aca gag ggt ctc aca gat gtc att tta tac cac caa cct 990
Ser Lys Val Thr Glu Gly Leu Thr Asp Val Ile Leu Tyr His Gln Pro
265 270 275

gat gac aag aaa aaa aac aga ggc ttt tgc ttt ctt gaa tat gaa gat 1038
Asp Asp Lys Lys Lys Asn Arg Gly Phe Cys Phe Leu Glu Tyr Glu Asp
280 285 290 295

cac aaa aca gct gcc cag gca aga cgt agg cta atg agt ggt aaa gtc 1086
His Lys Thr Ala Ala Gln Ala Arg Arg Arg Leu Met Ser Gly Lys Val
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Lys Val Trp Gly Asn Val Gly Thr Val Glu Trp Ala Asp Pro Ile Glu	
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Asp Pro Asp Pro Glu Val Met Ala Lys Val Lys Val Leu Phe Val Arg	
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Asn Leu Ala Asn Thr Val Thr Glu Glu Ile Leu Glu Lys Ser Phe Ser	
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Ile His Phe Asp Glu Arg Asp Gly Ala Val Lys Ala Met Glu Glu Met	
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Pro Pro Asp Gln Lys Arg Lys Glu Arg Lys Ala Gln Arg Gln Ala Ala	
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Tyr Pro Pro Asp Tyr Tyr Gly Tyr Glu Asp Tyr Tyr Asp Tyr Tyr Gly	
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Tyr Asp Tyr His Asn Tyr Arg Gly Gly Tyr Glu Asp Pro Tyr Tyr Gly	
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Tyr Glu Asp Phe Gln Val Gly Ala Arg Gly Arg Gly Gly Arg Gly Ala	
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Arg Gly Ala Ala Pro Ser Arg Gly Arg Gly Ala Ala Pro Pro Arg Gly	
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 Arg Ala Gly Tyr Ser Gln Arg Gly Gly Pro Gly Ser Ala Arg Gly Val
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 Arg Gly Ala Arg Gly Gly Ala Gln Gln Gln Arg Gly Arg Gly Gly Lys
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ggg gtc gag gcc ggt cct gac ctg tta caa tga agactgactt gctattgtgg 1859
 Gly Val Glu Ala Gly Pro Asp Leu Leu Gln
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 35 40 45

Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu Ala
 50 55 60

Leu Lys Glu Phe Asn Glu Asp Gly Ala Leu Ala Val Leu Gln Gln Phe
 65 70 75 80

Lys Asp Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala Phe Leu Cys
 85 90 95

Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly Thr Lys Val
 100 105 110

Ala Asp Ser Ser Lys Gly Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu
 115 120 125

Glu Arg Thr Gly Tyr Thr Leu Asp Val Thr Thr Gly Gln Arg Lys Tyr
 130 135 140

Gly Gly Pro Pro Pro Asp Ser Val Tyr Ser Gly Gln Gln Pro Ser Val
 145 150 155 160

Tyr Tyr Gly Pro Pro His Met Pro Pro Pro Thr Arg Gly Arg Gly Arg
 435 440 445

Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr Glu
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Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly Gly
 465 470 475 480

Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala Arg
 485 490 495

Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly Arg
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Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly Gly
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Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln Gln
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Gln Arg Gly Arg Gly Gly Lys Gly Val Glu Ala Gly Pro Asp Leu Leu
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Gln

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Lys

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